



Finnish Maritime Administration

BULLETIN No. 23/30.12.1998

TRANSPORT OF DANGEROUS GOODS IN PACKAGED FORM BY SEA

Amendment 29 to the IMDG Code

Amendment 29 to the IMDG Code will enter into force on 1 January 1999. The previous amendment, No. 28, may be applied instead of Amendment 29 until 30 June 1999. Application of Amendment 29 is mandatory from 1 July 1999.

The IMDG Code has been revised by Amendment 29, inter alia, as follows:

- When a ro-ro ship carries flammable liquids having a flash point of 23°C c.c. or less under deck, the cargo space shall be mechanically ventilated during sea transport. If the electrical installations of the cargo space comply with the requirements of Regulation II-2/54 of SOLAS, the ventilation system shall be operated to maintain at least six air changes per hour. If the electrical installations do not comply with the requirements of Regulation II-2/54 of SOLAS, the ventilation system shall be operated to maintain at least ten air changes per hour;
- When dangerous goods are transported in packaged form, the Multimodal Dangerous Goods Form (see appendix) should be used.

The International Maritime Organization (IMO) has published the amendments to the IMDG Code and to its "Supplement". The names and order numbers are as follows:

Amendment 29-98 to the International Maritime Dangerous Goods Code
(IMDG Code) IMO-213E

Amendment 29-98 to the Supplement to the IMDG Code IMO-216E

The publications are obtainable from:

IMO Publications Section
4 Albert Embankment
London SE1 7SR
United Kingdom
(phone +44 171 735 7611, fax +44 171 587 3241)

IMO publications are also obtainable via certain bookstores.

The Act on the Transport of Dangerous Goods (1994/719) and the Decree on the Transport of Dangerous Goods in Packaged Form (1998/666)

The Act on the Transport of Dangerous Goods entered into force on 1 September 1994. A Decree on the Transport of Dangerous Goods in Packaged Form was issued, under section 24 of the Act, on 4 September 1998. The Decree entered into force on 1 November 1998 and it repeals the Decree on the Carriage of Dangerous Goods in Ships (1980/357).

The Finnish Maritime Administration's Decision on the Transport of Dangerous Goods in Packaged Form by Sea

The Finnish Maritime Administration has issued a Decision on the Transport of Dangerous Goods in Packaged Form by Sea (No. 7/30/98) on 30 December 1998. This decision enters into force on 1 January 1999.

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Chief Engineer

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Senior Maritime Inspector

Further information:

Technical Division

This bulletin
supersedes bulletins:

16/15.9.1980 and
1/1.1.1997

**DECREE ON THE TRANSPORT OF DANGEROUS GOODS
IN PACKAGED FORM BY SEA**

4 September 1998/666

Upon the presentation of the Minister of Transport and Communications the following is provided under the Act on the Transport of Dangerous Goods of 2 August 1994 (1994/719):

Section 1

Scope of application

- (1) This Decree shall apply to the transport of dangerous goods in packaged form by sea:
 - (1) in Finnish ships in and outside Finnish territorial waters; and
 - (2) in foreign ships in Finnish territorial waters.
- (2) However, this Decree shall not apply to:
 - (1) recreational craft;
 - (2) the ships of the Defence Forces or the Frontier Guard if the competent authority has separately issued provisions on transport on board them;
 - (3) maritime and inland waterway transport of dangerous goods under the supervision of the Defence Forces if the competent ministry has issued provisions thereon;
 - (4) cable ferries connecting parts of public roads; nor to
 - (5) dangerous goods meant for the ship's own use or for work on board the ship.

Section 2

Definitions

- (1) For the purposes of this Decree:
 - (1) *goods in packaged form* means dangerous goods transported in packages, portable tanks, other containers or packed in a corresponding way; the provisions below on packages shall also apply to intermediate bulk containers (IBCs), containers and tanks;
 - (2) *a cargo transport unit* means a road freight vehicle, a railway freight wagon, a freight container, a road tank vehicle, a railway tank wagon or a portable tank;

- (3) *a package* means the smallest packaging or article meant to be handled as a single unit with the exception of a consignment placed or stacked on to a load board by strapping, shrink-wrapping or stretch-wrapping;
- (4) the *IMDG Code* means the International Maritime Dangerous Goods Code of the International Maritime Organization (IMO).

Section 3

Application of the IMDG Code

- (1) The transport of dangerous goods in packaged form by sea shall be governed by the IMDG Code as provided for in this Decree and as specified by the Finnish Maritime Administration. When issuing orders, the Finnish Maritime Administration may derogate from the IMDG Code if there is a special reason thereto and the corresponding safety level can be attained otherwise.
- (2) Further information on the IMDG Code is available from the Finnish Maritime Administration.

Section 4

Classification of dangerous goods

- (1) Dangerous goods shall be divided into into the following classes:

Class 1	Explosives
Class 2	Gases
Class 3	Flammable liquids
Class 4.1	Flammable solids
Class 4.2	Substances liable to spontaneous combustion
Class 4.3	Substances which, in contact with water, emit flammable gases
Class 5.1	Oxidizing substances
Class 5.2	Organic peroxides
Class 6.1	Toxic substances
Class 6.2	Infectious substances
Class 7	Radioactive materials
Class 8	Corrosives
Class 9	Miscellaneous dangerous substances and articles

- (2) Further orders and guidelines on the classification of dangerous goods shall be issued by the Finnish Maritime Administration.
- (3) In cases specified by the Finnish Maritime Administration, the goods shall be classified or the classification approved by the Safety Technology Authority or the Radiation and Nuclear Safety Authority (the STUK), which may require the shipper or the consignor of the goods to present the test results in order to ascertain the classification.
- (4) If a foreign competent authority referred to in the IMDG Code has made or approved a classification, the classification may be used also in Finland.

Section 5

Construction of packagings

- (1) Dangerous goods shall be packed for transport in packagings in conformity with this Decree and with orders issued by the Finnish Maritime Administration.
- (2) Parts of packagings which are in direct contact with dangerous substances may not be affected by chemical or other action of those substances. Such parts of packagings may not incorporate constituents liable to react dangerously with the contents so as to form hazardous products, or to weaken them significantly.
- (3) The packaging may not be affected by any changes in pressure caused by the contents. Where necessary, adequate pressure-relief devices should be used.

Section 6

Empty packagings

Empty uncleaned packagings shall be closed and leakproof in a similar manner as corresponding filled packagings.

Section 7

Marking

- (1) The shipper and the consignor shall be liable for the packages and cargo transport units bearing markings and hazard labels in compliance with the provisions and orders.
- (2) A package and cargo transport unit containing empty uncleaned packagings shall bear the same markings and hazard labels as filled packagings.

Section 8

Overpacks

A package may be packed in a separate overpack, which may not, however, be incompatible with the packing provisions and orders pertaining to the goods transported. The overpack shall bear package markings and hazard labels specified by the Finnish Maritime Administration.

Section 9

Approval of packagings

- (1) If a packaging is required to be type-approved in compliance with the IMDG Code, it shall be approved by the Safety Technology Authority or by a body authorized by it or by a foreign competent authority referred to in the IMDG Code or by a body authorized by it.
- (2) Packaging types to be approved in Finland shall be tested in compliance with the IMDG Code in a laboratory recognised by the Safety Technology Authority.
- (3) Tanks shall be approved by the Safety Technology Authority or by a body authorized by it or by a foreign competent authority referred to in the IMDG Code or by a body authorized by it.
- (4) In the case of packagings containing radioactive material, the competent authority shall be the STUK instead of the Safety Technology Authority in accordance with further orders issued by the Finnish Maritime Administration.

Section 10

Reports on damage to packagings

The shipper, consignor, operator and consignee shall be liable to report any damage to the structure of a type-approved packaging that has taken place during normal conditions of transport to the Safety Technology Authority or the STUK, depending on which authority is in charge of the type-approval of the packaging.

Section 11

Rights and obligations of the Safety Technology Authority and the STUK

- (1) The Safety Technology Authority and the STUK shall, where necessary and in particular if a damaged packaging causes harm or danger, have the right to have tests carried out in a laboratory designated by it in order to ensure that a mass-produced packaging meets the requirements set for the packaging type in question.
- (2) The Safety Technology Authority and the STUK shall keep a record of packagings type-approved in Finland.

Section 12

Documentation of goods being loaded or unloaded

- (1) The consignor and the shipper shall be liable, before the loading of the goods on board the ship, to submit to the master of the ship a document referred to in section 3(1) of the Decree on Reporting Obligations of Ships Carrying Dangerous or Polluting Goods (1994/869) supplemented with information on the possible flash point of the substance as well as the number of packagings in the shipment and the nature of the packages. The document shall further contain a declaration that the shipment is properly packaged and marked, labelled or placarded, as appropriate, and in proper condition for carriage. The declaration shall be accompanied by instructions for emergency procedures.
- (2) Before unloading dangerous goods in Finland, the master of the ship shall submit a copy of the declaration referred to in paragraph (1) and its annexes to the port authority and the party handling the unloading or its representative.

- (3) Crew members shall have the right to see the declaration referred to in this section and its annexes.

Section 13

The special list or manifest

- (1) Each ship carrying dangerous goods shall have a special list or manifest setting forth the dangerous goods and their location. A detailed stowage plan, which identifies by class and sets out the location of all dangerous goods on board, may be used in place of such a special list or manifest.
- (2) Crew members shall have the right to see the declaration referred to in paragraph (1).
- (3) The special list or manifest presented to the customs and port authorities shall contain a clear entry indicating that the cargo contains dangerous goods.

Section 14

The authorities

- (1) The Finnish Maritime Administration, the police authorities and the port authorities as well as the National Board of Customs and the Frontier Guard shall supervise the transport of dangerous goods in packaged form by sea. Transport operations taking place under the supervision of the Defence Forces are governed by the Act on the Transport of Dangerous Goods.
- (2) The other competent authorities shall be the Finnish Maritime Administration, the Safety Technology Authority, the STUK, and the Board for Gene Technology as provided for in this Decree and further specified by the Finnish Maritime Administration.

Section 15

Derogations in emergency

In emergency operations, the provisions of this Decree and the orders issued thereunder may be derogated from if compliance with the provisions and orders would hamper the operations.

Section 16

Reports on accidents

The Finnish Maritime Administration shall, where necessary, issue further orders on reports to be given in the case of accidents or incidents.

Section 17

Derogations

- (1) With regard to other packagings than those used for the transport of radioactive material, the Safety Technology Authority may, upon application, on a case-by-case basis and on conditions considered necessary by it, grant derogations from orders issued under this Decree.
- (2) The STUK may, for the transport of radioactive material, upon application, on a case-by-case basis and on conditions considered necessary by it, grant derogations from the orders issued under this Decree.
- (3) In other cases than those referred to in paragraphs (1) and (2), the Finnish Maritime Administration may, upon application, on a case-by-case basis, grant a derogation from the provisions of this Decree and from orders issued thereunder.
- (4) The derogations referred to in paragraphs (1) – (3) above may be granted only if there is a special compelling need therefor or if compliance with the provisions or orders would cause unreasonable costs or considerable detriment. In addition, the granting of a derogation implies that the required safety can be achieved by other means.

Section 18

Guidelines

- (1) The Finnish Maritime Administration shall, where necessary, issue guidelines on the application of this Decree.
- (2) The Safety Technology Authority, the STUK, the Board for Gene Technology, the ministry in charge of police administration, the National Board of Customs and the Frontier Guard may, if necessary, issue guidelines on matters falling under their scope of authority under this Decree.

Section 19

Entry into force

- (1) This Decree enters into force on 1 November 1998.
- (2) This Decree repeals the Decree on the Transport of Dangerous Goods by Sea issued on 16 January 1980 (1980/357).
- (3) Orders issued under the Decree repealed by this Decree shall remain in force until otherwise provided for or specified.
- (4) Measures necessary for the implementation of this Decree may be undertaken before its entry into force.

**FINNISH MARITIME
ADMINISTRATION**

ORDER

**Date: 30.12.1998
No.: 7/30/98**

Contents: Transport of dangerous goods in packaged form by sea

Based on: The Act on the Transport of Dangerous Goods (1994/719), Section 24
The Decree on the Transport of Dangerous Goods in Packaged Form
by Sea (1998/666), Sections 3 and 4

Target groups: Shipowners, the chemical industry, carriers and any others transporting
dangerous goods in packaged form

Validity: 1.1.1999 – until further notice

Repeals: The Finnish Maritime Administration's Decision on the Carriage of
Dangerous Goods in Ships of 16 December 1996, No. 12/30/96

**FINNISH MARITIME ADMINISTRATION
DECISION
ON THE TRANSPORT OF DANGEROUS GOODS IN PACKAGED FORM BY SEA**

Helsinki, 30 December 1998

The Finnish Maritime Administration has issued the following order under section 24 of the Act on the Transport of Dangerous Goods of 2 August 1994 (1994/719), as amended by Act 1250/1996, and under sections 3 and 4 of the Decree on the Transport of Dangerous Goods in Packaged Form by Sea (1998/666):

Section 1
Scope of application

Subject to what is provided in the Decree on the Transport of Dangerous Goods in Packaged Form by Sea (1998/666) or otherwise, this decision shall be complied with in the transport of dangerous goods in packaged form by sea.

Section 2
The IMDG Code

- (1) In the Decree on the Transport of Dangerous Goods in Packaged Form by Sea, the IMDG Code means the 1998 edition of the International Maritime Dangerous Goods Code (Amendment 29) of the International Maritime Organization. Amendment 28 to the IMDG Code may, however, be applied until 30 June 1999.

- (2) The IMDG Code referred to in paragraph (1) shall be applied in the transport of dangerous goods in packaged form by sea, unless otherwise provided in the Decree on the Transport of Dangerous Goods in Packaged Form by Sea or unless otherwise decided by the Finnish Maritime Administration hereafter or elsewhere.
- (3) Information on the IMDG Code is available from the Finnish Maritime Administration.

Section 3

Classification of dangerous goods

- (1) Information on the classification of dangerous goods in specific cases is available from the Finnish Maritime Administration. In section 4(3) of the Decree reference is made to cases in which the IMDG Code requires that the goods are classified or the classification is approved by a competent authority. In such cases, the competent authority in Finland is the Radiation and Nuclear Safety Authority with respect to class 7 and the Safety Technology Authority with respect to the other classes.
- (2) With respect to biological products and diagnostic specimens, compliance with the requirements of the national public health authorities shall also be ensured.
- (3) If a dead animal is known or is reasonably believed to contain infectious substances, the transport of the animal should be carried out in compliance not only with this decision but also with the provisions on the handling of animal waste issued by the national competent authority of the country of origin of the animal waste, which in Finland is the Ministry of Agriculture and Forestry.
- (4) The Board for Gene Technology issues instructions on the transport of genetically modified organisms in case the organisms are known or reasonably believed to be hazardous to humans, animals or the environment. In international transport, genetically modified organisms shall be transported in accordance with the instructions of the national competent authority of the country of origin.

Section 4

Packagings

- (1) Provisions on the approval of packagings and tanks are included in section 9 of the Decree on the Transport of Dangerous Goods in Packaged Form by Sea. In the cases referred to in paragraphs (1) and (3) of the section, applications for approval should be submitted to the Safety Technology Authority or a body authorized by it and in the cases referred to in paragraph (4) concerning packagings and tanks containing radioactive materials to the Radiation and Nuclear Safety Authority.
- (2) With respect to pressure vessels, provisions on pressure vessels shall also be complied with.

Section 5

Transport documents

- (1) Documentation of dangerous goods, as referred to in section 12 of the Decree on the Transport of Dangerous Goods in Packaged Form by Sea, should be made on forms identical with the appended form. If necessary, similar forms containing the same information may be used.

- (2) Unless the Emergency Procedures for Ships Carrying Dangerous Goods, EmS, and the Medical First Aid Guide for Use in Accidents Involving Dangerous Goods, MFAG, relating to the IMDG Code, contain instructions directly pertaining to the transport of the dangerous goods carried, relevant instructions for emergency procedures and medical first aid shall be attached to the transport documents.
- (3) In Finland, the certificates for transport of radioactive materials (class 7, paragraph 8.3, page 7037) provided for in the IMDG Code are issued by the Radiation and Nuclear Safety Authority.

Section 6

Publications to be carried on board

Any ship carrying dangerous goods in packaged form shall carry the following publications on board:

- (1) the Decree on the Transport of Dangerous Goods in Packaged Form by Sea;
- (2) this Decision;
- (3) an up-to-date issue of the IMDG Code;
- (4) the Emergency Procedures (EmS); and
- (5) the Medical First Aid Guide (MFAG).

Section 7

Reporting obligations

Provisions on the reporting obligation of ships carrying dangerous goods are included in the Decree on Reporting Obligations of Ships Carrying Dangerous or Polluting Goods (1994/869).

Section 8

Entry into force

This Decision shall enter into force on 1 January 1999.

This Decision repeals the Finnish Maritime Administration's Decision on the Carriage of Dangerous Goods in Ships (No. 12/30/96).

Helsinki, 30 December 1998

Heikki Valkonen
Maritime Safety Director

Magnus Fagerström
Senior Maritime Inspector

Example of a form which may be used as a combined transport document and container packing certificate for the multimodal transport of dangerous goods [new table]

MULTIMODAL DANGEROUS GOODS FORM

This form may be used as a dangerous goods declaration as it meets the requirements of SOLAS 74, chapter VII, regulation 5; MARPOL 73/78, Annex III, regulation 4 and section 9 of the General Introduction to the IMDG Code.

1 Shipper/Consignor/Sender		2 Transport document number			
		3 Page 1 of pages		4 Shipper's reference	
		5 Freight forwarder's reference			
6 Consignee		7 Carrier (to be completed by the carrier)			
		SHIPPER'S DECLARATION I hereby declare that the contents of this consignment are fully and accurately described below by the proper shipping name, and are classified, packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.			
8 This shipment is within the limitations prescribed for: (Delete non-applicable) PASSENGER AND CARGO AIRCRAFT CARGO AIRCRAFT ONLY		9 Additional handling information			
10 Vessel/flight no. and date 11 Port/place of loading					
12 Port/place of discharge 13 Destination					
14 Shipping marks *Number and kind of packages; description of goods Gross mass (kg) Net mass Cube (m³)					
15 Container identification no./ vehicle registration no.		16 Seal number(s)		17 Container/vehicle size & type	
				18 Tare mass (kg)	
				19 Total gross (including tare) (kg)	
CONTAINER/VEHICLE PACKING CERTIFICATE I hereby declare that the goods described above have been packed/loaded into the container/vehicle identified above in accordance with the applicable provisions.** MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING		21 RECEIVING ORGANIZATION RECEIPT Received the above number of packages/containers/trailers in apparent good order and condition, unless stated hereon: RECEIVING ORGANISATION REMARKS:			
20 Name of company		Haulier's name		22 Name of company (OF SHIPPER PREPARING THIS NOTE)	
		Vehicle reg. no.			
Name/status of declarant		Signature and date		Name/status of declarant	
Place and date				Place and date	
Signature of declarant		DRIVER'S SIGNATURE		Signature of declarant	

* **DANGEROUS GOODS:**
You must specify: proper shipping name, hazard class, UN No., Packaging group, (where assigned) Marine pollutant and observe the mandatory requirements under applicable national and international governmental regulations. For the purposes of the IMDG Code see paragraph 9.3.

** For the purposes of the IMDG Code see paragraphs 12.3.7 or 17.7.7.